



EMTEC4ED

Emerging Technologies for Education

QUESTIONNAIRE



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This questionnaire is designed to gather specific information related to the use of technology in teaching, with a focus on understanding the needs and challenges of teachers, their comfort level with technology, and their views on how technology can enhance pedagogical strategies and the teaching of basic literacy and numeracy skills. The questionnaire uses a mix of question types, including numeric input, multiple choice, and open-ended questions, to gather both quantitative and qualitative data.

Section 1: Demographics

This section aims to gather basic information about the respondents' professional backgrounds. Understanding their teaching experience, the age group they cater to, and their current use of technology in teaching will provide context to their responses in the subsequent sections.

1. How many years of teaching experience do you have?
 - **Justification:** *This question is important because the number of years of teaching experience can influence a teacher's comfort level with technology, their openness to new teaching methods, and their ability to adapt to changes in the educational landscape.*
 - **Answer Type:** Numeric Input
2. What age group do you primarily teach?
 - **Justification:** *The age group a teacher primarily teaches can influence the types of technology they use, as different age groups may require different teaching strategies and tools.*
 - **Answer Type:** Multiple Choice
3. How often do you use technology in your lessons each week?
 - **Justification:** *Understanding how frequently a teacher integrates technology into her lessons helps us reflect on her comfort and dependence on tech tools. It also aids in customising any further training or support she might need.*
 - **Answer Type:** Multiple Choice
 - **Options:** "Daily", "4 times a week", "3 times a week", "2 times a week", "Once a week", "Less than once a week", "Never"
4. What types of technology do you currently use in your teaching?
 - **Justification:** *Understanding the types of technology currently used in teaching can provide a baseline for the teacher's current level of technology integration and can help identify areas for further development or support.*
 - **Answer Type:** Multiple Choice

- **Options:** "Smartboards", "Tablets/iPads", "Educational Software", "Online Learning Platforms", "Video Conferencing Tools", "Virtual Reality/Augmented Reality Tools", "Learning Management Systems (e.g., Moodle, Blackboard)", "Digital Assessment Tools", "Interactive Whiteboards", "Digital Cameras/Video Cameras", "Other (please specify)"

Section 2: Comfort Level with Technology

This section is designed to assess the respondents' comfort level with using technology in their teaching. It's important to understand their current comfort level to identify potential areas of improvement and to tailor any necessary training or support.

1. On a scale of 1-5, how comfortable are you with using technology in your teaching? (1 being not comfortable at all, 5 being very comfortable)
 - **Justification:** *This question is crucial as it helps gauge the teacher's self-perceived comfort level with using technology in teaching. This can help identify teachers who may need additional support or training.*
 - **Answer Type:** *Likert Scale (1-5)*
2. How open to continuous professional development in the area of digital pedagogies? (1 being not open at all, 5 being very open)
 - **Justification:** *Understanding a teacher's willingness to engage in continuous professional development can provide insights into their adaptability and their commitment to improving their teaching practice.*
 - **Answer Type:** *Likert Scale (1-5)*
3. How do you feel about the pace of technological change in education? (1 being not comfortable at all, 5 being very comfortable)
 - **Justification:** *This question helps understand how teachers perceive the pace of technological change, which can influence their willingness and ability to adopt new technologies.*
 - **Answer Type:** *Likert Scale (1-5)*
4. Are there specific types of technology that you find difficult to use in your teaching? If yes, please specify.
 - **Justification:** *Identifying specific types of technology that teachers find difficult to use can help target professional development efforts and provide the necessary support.*
 - **Answer Type:** *Open-ended Text*

Section 3: Needs and Challenges

This section aims to understand the respondents' perceived needs and challenges when it comes to using technology for teaching. The insights gathered here will help in identifying areas where additional resources or support may be required.

1. What are the biggest challenges you face when using technology in your teaching?
 - **Justification:** *This question helps identify the main challenges teachers face when using technology in teaching. This can guide the development of strategies and resources to address these challenges.*
 - **Answer Type:** Multiple Choice
 - **Options:** "Lack of training", "Insufficient resources", "Unreliable internet connection", "Lack of time for planning", "Difficulty in managing student use of technology", "Other (please specify)"
2. What are the main barriers you face when trying to integrate technology into your teaching?
 - **Justification:** *This question helps identify the main barriers teachers face when using technology in teaching. This can guide the development of strategies and resources to overcome these barriers.*
 - **Answer Type:** Multiple Choice
 - **Options:** "Lack of technical skills", "Insufficient hardware/software", "Lack of administrative support", "Lack of time for training", "Concerns about online safety", "Other (please specify)"
3. What kind of support do you need to overcome these barriers?
 - **Justification:** *This question aims to understand the types of support teachers need to overcome the challenges and barriers they face. This can help in the provision of targeted support.*
 - **Answer Type:** Multiple Choice
 - **Options:** "More professional development", "Better technology infrastructure", "More planning time", "Smaller class sizes", "More technical support", "Other (please specify)"
4. What types of resources or support would help you overcome these challenges?
 - **Justification:** *This question aims to understand the types of resources teachers need to overcome the challenges and barriers they face. This can help in the provision of targeted resources.*
 - **Answer Type:** Multiple Choice

- **Options:** "Access to more devices", "Better internet connection", "More software options", "More training opportunities", "More technical support", "Other (please specify)"
5. How do you feel about the support you receive from your school in terms of technology integration? (1 being very dissatisfied, 5 being very satisfied)
- **Justification:** This question helps gauge teachers' satisfaction with the support they receive from their school, which can influence their ability and willingness to integrate technology into their teaching.
 - **Answer Type:** Likert Scale (1-5)

Section 4: Emerging Technologies

This section is designed to gauge the respondents' familiarity and interest in emerging technologies. Understanding their awareness and interest can help in planning future professional development programs and technology integration strategies.

1. How often do you participate in professional development related to technology integration?
 - **Justification:** *This question helps understand how often teachers engage in professional development related to technology integration, which can influence their ability to keep up with technological advancements in education.*
 - **Answer Type:** Multiple choice
 - **Options:** Never, Daily, Weekly, Monthly, Quarterly, Twice a year, Yearly
2. Are you familiar with the following emerging technologies?
 - **Justification:** *This question aim to gauge teachers' familiarity with and interest in emerging technologies. This can guide the planning of future professional development programs and technology integration strategies.*
 - **Answer Type:** Multiple Choice
 - **Options:** "Artificial Intelligence (AI)", "Augmented Reality (AR)", "Virtual Reality (VR)", "Robotics", "3D Printing", "Internet of Things (IoT)", "Blockchain", "Cloud Computing", "Other (please specify)"
3. For each of the technologies selected in the previous question, could you envision how you might use them in your teaching?
 - **Justification:** *This question aim to gauge teachers' familiarity with and interest in emerging technologies. This can guide the planning of future professional development programs and technology integration strategies.*
 - **Answer Type:** Open-ended Text
4. Which of these technologies are you interested in learning more about for your teaching?
 - **Justification:** *This question aim to gauge teachers' familiarity with and interest in emerging technologies. This can guide the planning of future professional development programs and technology integration strategies.*
 - **Answer Type:** Multiple Choice
 - **Options:** "Artificial Intelligence (AI)", "Augmented Reality (AR)", "Virtual Reality (VR)", "Robotics", "3D Printing", "Internet of Things (IoT)", "Blockchain", "Cloud Computing", "Other (please specify)"

Section 5: Pedagogical Dimension

This section is designed to understand the respondents' views on the pedagogical dimension of using technology. Their insights will help in understanding how they perceive the role of technology in enhancing teaching and learning processes.

1. How do you feel about the impact of technology on student engagement? (1 being very negative, 5 being very positive)
 - **Justification:** *This question helps understand teachers' perceptions of the impact of technology on student engagement, which can influence their willingness to integrate technology into their teaching.*
 - **Answer Type:** *Likert Scale (1-5)*
2. How do you think technology can enhance the pedagogical dimension of your teaching? (For example, do you think technology can help in differentiating instruction, facilitating collaborative learning, or enhancing student engagement?) (1 being does not enhance the pedagogical dimension, 5 being it strongly enhances the pedagogical dimension)
 - **Justification:** *This question aims to understand how teachers perceive the role of technology in enhancing teaching and learning processes. This can provide insights into their pedagogical beliefs and practices.*
 - **Answer Type:** *Likert Scale (1-5)*
3. Which of the following pedagogical strategies do you think could be enhanced by technology? (Select all that apply)
 - **Justification:** *This question aims to understand how teachers perceive the role of technology in enhancing teaching and learning processes. This can provide insights into their pedagogical beliefs and practices.*
 - **Answer Type:** *Multiple Choice*
 - **Options:** *"Problem-based Learning", "Flipped Classroom", "Game-based Learning", "Blended Learning", "Differentiated Instruction", "Inquiry-based Learning", "Project-based Learning", "Cooperative Learning", "Other (please specify)"*
4. Could you provide examples of how you have successfully integrated technology into your teaching strategies?
 - **Justification:** *This question allows teachers to share examples of successful technology integration, which can provide valuable insights and examples for other teachers.*
 - **Answer Type:** **Multiple Choice**
 - **Options:** *"Using educational apps for interactive learning", "Incorporating online games to reinforce concepts", "Utilizing*

digital storytelling tools for creative assignments", "Implementing digital tools for hands-on learning", "Incorporating video conferencing for guest lectures or virtual field trips", "Using Learning Management Systems for assignments and feedback", "Other (please specify)"

Section 6: Literacy and Numeracy Skills

This section is designed to understand how the respondents use technology for teaching basic literacy and numeracy skills. Their responses will provide insights into the current practices and potential areas for integrating more technology.

1. In your opinion, how effective is technology in teaching basic literacy skills? (1 not effective at all, 5 very effective)
 - **Justification:** *This question helps gauge teachers' perceptions of the effectiveness of using technology in teaching basic literacy skills.*
 - **Answer Type:** *Likert Scale (1-5)*
2. In your opinion, how effective is technology in teaching basic numeracy skills? (1 not effective at all, 5 very effective)
 - **Justification:** *This question helps gauge teachers' perceptions of the effectiveness of using technology in teaching basic numeracy skills.*
 - **Answer Type:** *Likert Scale (1-5)*
3. How do you currently use technology to teach basic literacy and numeracy skills?
 - **Justification:** *This question aims to understand how teachers use technology to teach basic literacy and numeracy skills and what additional resources or technologies they think could enhance their teaching. This can guide the development of resources and strategies to support the teaching of these skills.*
 - **Answer Type:** *Multiple Choice*
 - **Options:** *"Using educational apps tailored for literacy and numeracy", "Incorporating online math and reading games", "Utilizing digital books and reading platforms", "Implementing digital tools for math concepts", "Using interactive whiteboards for group activities", "Incorporating video lessons or tutorials", "Other (please specify)"*
4. What additional resources or technologies do you think could enhance your teaching of these skills? (For example, would you find value in interactive whiteboards, adaptive learning software, virtual reality experiences, or online collaboration tools?)
 - **Justification:** *This question aims to understand how teachers use technology to teach basic literacy and numeracy skills and what additional resources or technologies they think could enhance their teaching. This can guide the development of resources and strategies to support the teaching of these skills.*
 - **Answer Type:** *Multiple Choice*
 - **Options:** *"Interactive whiteboards for dynamic lessons", "Adaptive learning software for personalised learning paths", "Virtual reality*

experiences for immersive learning", "Online collaboration tools for group projects", "Digital assessment tools for instant feedback", "Augmented reality apps for hands-on learning", "Other (please specify)"

5. How do you feel about the impact of technology on your workload?

- **Justification:** *This question helps understand teachers' perceptions of the impact of technology on their workload, which can influence their willingness to integrate technology into their teaching.*
- **Answer Type:** *Open-ended Text*